

# SEQUENCE LISTING

<110> BOOTS, ANNA M.H.  
VERHEIJDEN, GILBERTUS F.M.

<120> NOVEL PEPTIDES SUITABLE FOR USE IN ANTIGEN SPECIFIC  
IMMUNOSUPPRESSIVE THERAPY

<130> O/96198 US

<140> PCT/EP97/02051

<141> 1997-04-22

<160> 78

<170> PatentIn Ver. 2.0

<210> 1

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 1

Tyr	Lys	Leu	Val	Cys	Tyr	Tyr	Thr	Ser	Trp	Ser	Gln	Tyr	Arg	Glu	Gly
1				5					10					15	

<210> 2

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 2

Tyr	Thr	Ser	Trp	Ser	Gln	Tyr	Arg	Glu	Gly	Asp	Gly	Ser	Cys	Phe	Pro
1				5					10					15	

<210> 3

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 3

Tyr Arg Glu Gly Asp Gly Ser Cys Phe Pro Asp Ala Leu Asp Arg Phe  
1 5 10 15

<210> 4

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 4

Ser Cys Phe Pro Asp Ala Leu Asp Arg Phe Leu Cys Thr His Ile Ile  
1 5 10 15

<210> 5

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 5

Leu Asp Arg Phe Leu Cys Thr His Ile Ile Tyr Ser Phe Ala Asn Ile  
1 5 10 15

<210> 6

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 6

Thr His Ile Ile Tyr Ser Phe Ala Asn Ile Ser Asn Asp His Ile Asp  
1 5 10 15

<210> 7

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 7

Phe Ala Asn Ile Ser Asn Asp His Ile Asp Thr Trp Glu Trp Asn Asp  
1 5 10 15

<210> 8

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 8

Asp His Ile Asp Thr Trp Glu Trp Asn Asp Val Thr Leu Tyr Gly Met  
1 5 10 15

<210> 9

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 9

Glu Trp Asn Asp Val Thr Leu Tyr Gly Met Leu Asn Thr Leu Lys Asn  
1 5 10 15

<210> 10

<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 10  
Leu Tyr Gly Met Leu Asn Thr Leu Lys Asn Arg Asn Pro Asn Leu Lys  
1 5 10 15

<210> 11  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 11  
Thr Leu Lys Asn Arg Asn Pro Asn Leu Lys Thr Leu Leu Ser Val Gly  
1 5 10 15

<210> 12  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 12  
Pro Asn Leu Lys Thr Leu Leu Ser Val Gly Gly Trp Asn Phe Gly Ser  
1 5 10 15

<210> 13  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM

SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 13

Leu Ser Val Gly Gly Trp Asn Phe Gly Ser Gln Arg Phe Ser Lys Ile  
1 5 10 15

<210> 14

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 14

Asn Phe Gly Ser Gln Arg Phe Ser Lys Ile Ala Ser Asn Thr Gln Ser  
1 5 10 15

<210> 15

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 15

Phe Ser Lys Ile Ala Ser Asn Thr Gln Ser Arg Arg Thr Phe Ile Lys  
1 5 10 15

<210> 16

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 16

Asn Thr Gln Ser Arg Arg Thr Phe Ile Lys Ser Val Pro Pro Phe Leu  
1 5 10 15

<210> 17  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 17

Thr Phe Ile Lys Ser Val Pro Pro Phe Leu Arg Thr His Gly Phe Asp  
1 5 10 15

<210> 18  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 18

Pro Pro Phe Leu Arg Thr His Gly Phe Asp Gly Leu Asp Leu Ala Trp  
1 5 10 15

<210> 19  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 19

His Gly Phe Asp Gly Leu Asp Leu Ala Trp Leu Tyr Pro Gly Arg Arg  
1 5 10 15

<210> 20  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 20

Asp Leu Ala Trp Leu Tyr Pro Gly Arg Arg Asp Lys Gln His Phe Thr  
1 5 10 15

<210> 21

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 21

Pro Gly Arg Arg Asp Lys Gln His Phe Thr Thr Leu Ile Lys Glu Met  
1 5 10 15

<210> 22

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 22

Gln His Phe Thr Thr Leu Ile Lys Glu Met Lys Ala Glu Phe Ile Lys  
1 5 10 15

<210> 23

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 23

Ile Lys Glu Met Lys Ala Glu Phe Ile Lys Glu Ala Gln Pro Gly Lys

1

5

10

15

&lt;210&gt; 24

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 24

Glu Phe Ile Lys Glu Ala Gln Pro Gly Lys Lys Gln Leu Leu Leu Ser

1

5

10

15

&lt;210&gt; 25

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 25

Gln Pro Gly Lys Lys Gln Leu Leu Leu Ser Ala Ala Leu Ser Ala Gly

1

5

10

15

&lt;210&gt; 26

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 26

Leu Leu Leu Ser Ala Ala Leu Ser Ala Gly Lys Val Thr Ile Asp Ser

1

5

10

15

&lt;210&gt; 27

&lt;211&gt; 16

&lt;212&gt; PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 27

Leu Ser Ala Gly Lys Val Thr Ile Asp Ser Ser Tyr Asp Ile Ala Lys  
1 5 10 15

<210> 28

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 28

Thr Ile Asp Ser Ser Tyr Asp Ile Ala Lys Ile Ser Gln His Leu Asp  
1 5 10 15

<210> 29

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 29

Asp Ile Ala Lys Ile Ser Gln His Leu Asp Phe Ile Ser Ile Met Thr  
1 5 10 15

<210> 30

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 30

Gln His Leu Asp Phe Ile Ser Ile Met Thr Tyr Asp Phe His Gly Ala  
1 5 10 15

<210> 31

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 31

Ser Ile Met Thr Tyr Asp Phe His Gly Ala Gln Arg Gly Thr Thr Gly  
1 5 10 15

<210> 32

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 32

Phe His Gly Ala Trp Arg Gly Thr Thr Gly His His Ser Pro Leu Phe  
1 5 10 15

<210> 33

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 33

Gly Thr Thr Gly His His Ser Pro Leu Phe Arg Gly Gln Glu Asp Ala  
1 5 10 15

<210> 34

<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 34

Ser Pro Leu Phe Arg Gly Gln Glu Asp Ala Ser Pro Asp Arg Phe Ser  
1 5 10 15

<210> 35

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 35

Gln Glu Asp Ala Ser Pro Asp Arg Phe Ser Asn Thr Asp Tyr Ala Val  
1 5 10 15

<210> 36

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 36

Asp Arg Phe Ser Asn Thr Asp Tyr Ala Val Gly Tyr Met Leu Arg Leu  
1 5 10 15

<210> 37

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM

# SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 37

Asp Tyr Ala Val Gly Tyr Met Leu Arg Leu Gly Ala Pro Ala Ser Lys  
1 5 10 15

<210> 38

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 38

Met Leu Arg Leu Gly Ala Pro Ala Ser Lys Leu Val Met Gly Ile Pro  
1 5 10 15

<210> 39

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 39

Pro Ala Ser Lys Leu Val Met Gly Ile Pro Thr Phe Gly Arg Ser Phe  
1 5 10 15

<210> 40

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 40

Met Gly Ile Pro Thr Phe Gly Arg Ser Phe Thr Leu Ala Ser Ser Glu  
1 5 10 15

<210> 41  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 41

Gly Arg Ser Phe Thr Leu Ala Ser Ser Glu Thr Gly Val Gly Ala Pro  
1 5 10 15

<210> 42  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 42

Ala Ser Ser Glu Thr Gly Val Gly Ala Pro Ile Ser Gly Pro Gly Ile  
1 5 10 15

<210> 43  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 43

Val Gly Ala Pro Ile Ser Gly Pro Gly Ile Pro Gly Arg Phe Thr Lys  
1 5 10 15

<210> 44  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 44

Gly Pro Gly Ile Pro Gly Arg Phe Thr Lys Glu Ala Gly Thr Leu Ala  
1 5 10 15

<210> 45

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 45

Arg Phe Thr Lys Glu Ala Gly Thr Leu Ala Tyr Tyr Glu Ile Cys Asp  
1 5 10 15

<210> 46

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 46

Gly Thr Leu Ala Tyr Tyr Glu Ile Cys Asp Phe Leu Arg Gly Ala Thr  
1 5 10 15

<210> 47

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 47

Glu Ile Cys Asp Phe Leu Arg Gly Ala Thr Val His Arg Thr Leu Gly

1

5

10

15

&lt;210&gt; 48

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 48

Arg Gly Ala Thr Val His Arg Thr Leu Gly Gln Gln Val Pro Tyr Ala  
1 5 10 15

&lt;210&gt; 49

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 49

Arg Thr Leu Gly Gln Gln Val Pro Tyr Ala Thr Lys Gly Asn Gln Trp  
1 5 10 15

&lt;210&gt; 50

&lt;211&gt; 16

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

&lt;400&gt; 50

Val Pro Tyr Ala Thr Lys Gly Asn Gln Trp Val Gly Tyr Asp Asp Gln  
1 5 10 15

&lt;210&gt; 51

&lt;211&gt; 16

&lt;212&gt; PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 51

Gly Asn Gln Trp Val Gly Tyr Asp Asp Gln Glu Ser Val Lys Ser Lys  
1 5 10 15

<210> 52

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 52

Tyr Asp Asp Gln Glu Ser Val Lys Ser Lys Val Gln Tyr Leu Lys Asp  
1 5 10 15

<210> 53

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 53

Val Lys Ser Lys Val Gln Tyr Leu Lys Asp Arg Gln Leu Ala Gly Ala  
1 5 10 15

<210> 54

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN



<400> 54

Tyr Leu Lys Asp Arg Gln Leu Ala Gly Ala Met Val Trp Ala Leu Asp  
1 5 10 15

<210> 55

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 55

Leu Ala Gly Ala Met Val Trp Ala Leu Asp Leu Asp Asp Phe Gln Gly  
1 5 10 15

<210> 56

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 56

Trp Ala Leu Asp Leu Asp Asp Phe Gln Gly Ser Phe Cys Gly Gln Asp  
1 5 10 15

<210> 57

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 57

Asp Phe Gln Gly Ser Phe Cys Gly Gln Asp Leu Arg Phe Pro Leu Thr  
1 5 10 15

<210> 58

<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 58

Cys Gly Gln Asp Leu Arg Phe Pro Leu Thr Asn Ala Ile Lys Asp Ala  
1 5 10 15

<210> 59

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 59

Leu Arg Phe Pro Leu Thr Asn Ala Ile Lys Asp Ala Leu Ala Ala Thr  
1 5 10 15

<210> 60

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 60

Leu Val Cys Tyr Tyr Thr Ser Trp Ser  
1 5

<210> 61

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM

SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 61

Phe Leu Cys Thr His Ile Ile Tyr Ser  
1 5

<210> 62

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 62

Ile Ile Tyr Ser Phe Ala Asn Ile Ser  
1 5

<210> 63

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 63

Leu Lys Thr Leu Leu Ser Val Gly Gly  
1 5

<210> 64

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 64

Phe Ile Lys Ser Val Pro Pro Phe Leu  
1 5

<210> 65  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 65  
Phe Asp Gly Leu Asp Leu Ala Trp Leu  
1 5

<210> 66  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 66  
Leu Tyr Pro Gly Arg Arg Asp Lys Gln  
1 5

<210> 67  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 67  
Tyr Asp Ile Ala Lys Ile Ser Gln His  
1 5

<210> 68  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 68

Leu Asp Phe Ile Ser Ile Met Thr Tyr

1

5

<210> 69

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 69

Phe Ile Ser Ile Met Thr Tyr Asp Phe

1

5

<210> 70

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 70

Phe Arg Gly Gln Glu Asp Ala Ser Pro

1

5

<210> 71

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 71

Tyr Ala Val Gly Tyr Met Leu Arg Leu

1

5

<210> 72  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 72

Met Leu Arg Leu Gly Ala Pro Ala Ser

1

5

<210> 73  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 73

Leu Ala Tyr Tyr Glu Ile Cys Asp Phe

1

5

<210> 74  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 74

Leu Arg Gly Ala Thr Val His Arg Thr

1

5

<210> 75  
<211> 9  
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 75

Tyr Leu Lys Asp Arg Gln Leu Ala Gly  
1 5

<210> 76

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 76

Leu Ala Gly Ala Met Val Trp Ala Leu  
1 5

<210> 77

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

<400> 77

Val Trp Ala Leu Asp Leu Asp Asp Phe  
1 5

<210> 78

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: DERIVED FROM  
SEQUENCE OF HUMAN CARTILAGE (HC) -39 PROTEIN

Leu Asp Leu Asp Asp Phe Gln Gly Ser  
1 5

Leu Asp Leu Asp Asp Phe Gln Gly Ser  
1 5

1

5